

What is claimed is:

1. An evaluation apparatus for a biological sample for acquiring numerical data showing a state of said biological sample from image data obtained by taking an image of said biological sample comprising:
 - (a) a condition pass/fail determining unit for determining whether a measuring area being set as a numerical data acquiring area in an image to be evaluated conforms to a predetermined condition for acquiring the numerical data,
 - 10 (b) a digitization unit for acquiring the numerical data from the image of which the measuring area is judged to be conforming to the predetermined condition, and
 - (c) a measuring area changing unit for changing the measuring area.
- 15 2. The evaluation apparatus of claim 1, wherein the biological sample includes a cell, and the predetermined condition includes at least one of a number of the cell and an area of the cell in the measuring area.
- 20 3. The evaluation apparatus of claim 1, wherein the predetermined condition includes a reference image to be compared with the image in the measuring area.
- 25 4. The evaluation apparatus of claim 1, wherein the predetermined condition includes a predetermined value relating to a result of comparison obtained by comparison between the image in

the measuring area and a reference image.

5. The evaluation apparatus of claim 1, wherein said biological sample is a cell having a linear structure extending from a 5 soma, and said numerical data includes at least one of a length and an area of the linear structure.

6. An evaluation method for a biological sample for acquiring numerical data from an image data obtained by taking an image of 10 said biological sample comprising the steps of:

- (a) setting a condition for acquiring numerical data from a measuring area being set as a numerical data acquiring area in an image to be evaluated,
- (b) judging whether the measuring area conforms to the 15 condition when acquiring the numerical data,
- (c) acquiring the numerical data from the measuring area when judged to conform to the condition, and
- (d) changing the measuring area when judged not to conform.

20 7. The evaluation method of claim 6, wherein the biological sample includes a cell, and the condition includes at least one of a number of the cell and an area of the cell in the measuring area.

25 8. The evaluation method of claim 6, wherein the condition includes a reference image to be compared with the image in the measuring area.

9. The evaluation method of claim 6, wherein the predetermined condition includes a predetermined value relating to a result of comparison obtained by comparison between the image in the measuring area and a reference image.

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10. The evaluation method of claim 6, wherein said biological sample is a cell having a linear structure extending from a soma, and said numerical data includes at least one of a length and an area of the linear structure.

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11. A storage medium storing a computer program for executing an evaluation method of a biological sample for acquiring numerical data from an image data obtained by taking an image of said biological sample, said evaluation method comprising the steps 15 of:

(a) setting a condition for acquiring numerical data from a measuring area being set as a numerical data acquiring area in an image to be evaluated,

20 (b) judging whether the measuring area conforms to the condition when acquiring the numerical data,

(c) acquiring the numerical data from the measuring area when judged to conform to the condition, and

(d) changing the measuring area when judged not to conform.

25 12. The storage medium of claim 11, wherein the biological sample include a cell, and the condition includes at least one of a number of cell and an area of the cell in the measuring area.

13. The storage medium of claim 11, wherein the condition includes a reference image to be compared with the image in the measuring area.

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14. The storage medium of claim 11, wherein the condition includes the predetermined value relating to the result of comparison obtained by comparison between the image in the measuring area and a reference image.

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15. The storage medium of claim 11, wherein said biological sample are a cell having a linear structure extending from the soma, and the numerical data includes at least one of a length and an area of the linear structure.